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Modeling of Latent Heat Effects on Phase Transformation in Shape Memory Alloy Thin Structures

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Highlights

- Effect of latent heat on phase transformation in SMAs
- Finite element simulation of coupling between temperature heterogeneity induced by latent heat and phase transformation distribution in SMA thin structures
- \bullet Effect of loading rates on thermo-mechanical behavior of SMAs
- 2D thermo-mechanical continuum finite element with SMA constitutive model implemented in Abaqus finite element code via UEL subroutine

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